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## NOTICE OF ALLOWANCE AND FEE(S) DUE

8791 7590 12/24/2008

BLAKELY SOKOLOFF TAYLOR & ZAFMAN LLP  
1279 OAKMEAD PARKWAY  
SUNNYVALE, CA 94085-4040

EXAMINER	
HUNG, YUBIN	
ART UNIT	PAPER NUMBER
2624	

DATE MAILED: 12/24/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/734,480	12/12/2003	Yasuhiro Ii	6453P019	9599

TITLE OF INVENTION: METHOD OF DISPLAYING A THUMBNAIL IMAGE, SERVER COMPUTER, AND CLIENT COMPUTER

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	03/24/2009

**THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.**

**THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.**

**HOW TO REPLY TO THIS NOTICE:**

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

**IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.**

## PART B - FEE(S) TRANSMITTAL

**Complete and send this form, together with applicable fee(s), to:** **Mail Stop ISSUE FEE**  
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**INSTRUCTIONS:** This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

8791            7590            12/24/2008

**BLAKELY SOKOLOFF TAYLOR & ZAFMAN LLP**  
**1279 OAKMEAD PARKWAY**  
**SUNNYVALE, CA 94085-4040**

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

### **Certificate of Mailing or Transmission**

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)

(Signature)

(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/734,480	12/12/2003	Yasuhiro Ii	6453P019	9599

TITLE OF INVENTION: METHOD OF DISPLAYING A THUMBNAIL IMAGE, SERVER COMPUTER, AND CLIENT COMPUTER

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	03/24/2009
EXAMINER	ART UNIT	CLASS-SUBCLASS				
HUNG, YUBIN	2624	382-240000				

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.  
 "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

(1) the names of up to 3 registered patent attorneys or agents OR, alternatively,  
(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 \_\_\_\_\_  
2 \_\_\_\_\_  
3 \_\_\_\_\_

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent):  Individual  Corporation or other private group entity  Government

4a. The following fee(s) are submitted:

Issue Fee  
 Publication Fee (No small entity discount permitted)  
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4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)

A check is enclosed.  
 Payment by credit card. Form PTO-2038 is attached.  
 The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number \_\_\_\_\_ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.  b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature \_\_\_\_\_

Date \_\_\_\_\_

Typed or printed name \_\_\_\_\_

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This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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8791	7590	12/24/2008	EXAMINER	
BLAKELY SOKOLOFF TAYLOR & ZAFMAN LLP 1279 OAKMEAD PARKWAY SUNNYVALE, CA 94085-4040				HUNG, YUBIN
ART UNIT		PAPER NUMBER		
2624				DATE MAILED: 12/24/2008

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 800 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 800 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/734,480	II, YASUHIRO	
	<b>Examiner</b>	<b>Art Unit</b>	
	YUBIN HUNG	2624	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1.  This communication is responsive to 12/02/08.
2.  The allowed claim(s) is/are 1-5 and 7-17.
3.  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a)  All    b)  Some\*    c)  None    of the:
    1.  Certified copies of the priority documents have been received.
    2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3.  Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4.  A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5.  CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a)  including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1)  hereto or 2)  to Paper No./Mail Date \_\_\_\_\_.
  - (b)  including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6.  DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1.  Notice of References Cited (PTO-892)
2.  Notice of Draftsperson's Patent Drawing Review (PTO-948)
3.  Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4.  Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5.  Notice of Informal Patent Application
6.  Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_.
7.  Examiner's Amendment/Comment
8.  Examiner's Statement of Reasons for Allowance
9.  Other \_\_\_\_\_.

### **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Applicant's representative Mr. Michael J. Mallie on 12/15/08.

**2. The application has been amended as follows:**

**REPLACE ALL CLAIMS WITH THE FOLLOWING**

(Note: Examiner-added texts are highlighted.)

1. A method of displaying a plurality of thumbnail images on a display unit, the method comprising:

(a) storing in a storage unit a plurality of first compressed codes relating to a plurality of images, each corresponding to one of a plurality of data files of different format types, wherein each of the plurality of first compressed codes being generated by dividing one of the plurality of images into a plurality of tiles and performing discrete wavelet transform and hierarchical encoding on pixel values of the one image tile by tile,

Art Unit: 2624

wherein each thumbnail image is capable of being generated from one of the plurality of first compressed codes by extracting different portions of the one first compressed codes;

- (b) setting a plurality of resolutions of the plurality of thumbnail images in accordance with the format types of the plurality of data files;
- (c) extracting a plurality of second compressed codes according to the plurality of resolutions from the plurality of first compressed codes stored in the storage unit to select the plurality of thumbnail images with the plurality of resolutions, wherein steps (b) and (c) are performed by a computer; and
- (d) displaying, in a single view, the plurality of thumbnail images based on the plurality of second compressed codes, wherein the displayed thumbnail images have different resolutions corresponding to the format types of the plurality of data files.

2. server computer causing a plurality of thumbnail images to be displayed on a display unit of a client computer in accordance with an instruction therefrom, the client computer being connected to the server computer via a network, the server computer comprising:

a thumbnail image storage unit to store in a storage unit a plurality of first compressed codes relating to a plurality of images, each corresponding to one of a plurality of data files of different format types, wherein each of the plurality of first compressed codes being generated by dividing the one of the plurality of images into a plurality of tiles and performing discrete wavelet transform and hierarchical encoding on

Art Unit: 2624

pixel values of the one image tile by tile, wherein each thumbnail image is capable of being generated from one of the plurality of first compressed codes by extracting different portions of the one first compressed codes;

a thumbnail image setting acquisition unit to acquire from the client computer a plurality of resolutions of the plurality of thumbnail images, the resolutions being set in accordance with the format types of the plurality of data files;

a thumbnail image extraction unit to extract a plurality of second compressed codes according to the plurality of resolutions acquired by the thumbnail image setting acquisition unit from the plurality of first compressed codes stored in the storage unit to select the plurality of thumbnail images with the resolutions; and

a thumbnail image transmission unit to transmit the plurality of second compressed codes extracted by the thumbnail image extraction unit to the client computer,

wherein the plurality of thumbnail images are displayed in a single view by the client computer based on the plurality of second compressed codes, and the displayed thumbnail images have different resolutions corresponding to the format types of the plurality of data files.

3. The server computer as claimed in claim 2, wherein when a region of interest (ROI) is specified with respect to each of the plurality of images, the thumbnail image extraction unit extracts the plurality of second compressed codes according to the plurality of resolutions set in the thumbnail image setting acquisition unit from part of

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each of the plurality of first compressed codes stored in the storage unit, the part of  
each of the plurality of first compressed codes relating to a tile of the ROI.

4. The server computer as claimed in claim 2, wherein the thumbnail image extraction unit extracts the plurality of second compressed codes from only a luminance component of the plurality of first compressed codes stored in the storage unit depending on the format types of the data files.

5. A client computer displaying a plurality of thumbnail images of a plurality of images, each corresponding to one of a plurality of data files of different format types stored in a storage unit of a server computer on a display unit, the server computer being connected to the client computer via a network, the client computer comprising:

a thumbnail image setting unit to set a plurality of resolutions of the plurality of thumbnail images in accordance with the format types of the plurality of images, each format type being associated with one or more resolutions such that setting the resolution selects the plurality of thumbnail images from thumbnail images that may be generated from a plurality of first compressed codes related to the plurality of images and are stored in the storage unit; and

a thumbnail image setting transmission unit to transmit the resolutions set by the thumbnail image setting unit to the server computer,

wherein the plurality of thumbnail images are displayed in a single view by the client computer, and the displayed thumbnail images have different resolutions corresponding to the format types of the plurality of data files.

6. (Cancelled).

7. The client computer as claimed in claim 5, wherein in a case of receiving from the server computer a plurality of second compressed codes according to the resolutions set by the thumbnail image setting unit extracted from part of each of the plurality of first compressed codes stored in the storage unit, the part of each of the plurality of the first compressed codes relating to a tile of an ROI, the plurality of thumbnail images include one enlarged in accordance with the format type of the data file corresponding to the image related to the enlarged one.

8. A computer-readable recording medium storing a program for causing a server computer to execute a method of displaying a plurality of thumbnail images of a plurality of images, each corresponding to one of a plurality of data files of different format types stored in a storage unit of the server computer on a display unit of a client computer in accordance with an instruction therefrom, the client computer being connected to the server computer via a network, the method comprising:

(a) acquiring from the client computer a plurality of resolutions of the plurality of thumbnail images, the plurality of resolutions being set in accordance with the format types of the plurality of data files;

(b) extracting a plurality of second compressed codes according to the resolutions from a plurality of first compressed codes stored in the storage unit to select the plurality of thumbnail images with the resolutions, wherein the plurality of thumbnail images are capable of being generated from the first compressed codes by extracting different portions of the first compressed codes, the first compressed codes relating to the plurality of images for displaying the plurality of thumbnail images and each being generated by dividing one of the plurality of images into a plurality of tiles and performing discrete wavelet transform and hierarchical encoding on pixel values of the one of the plurality of images tile by tile; and

(c) transmitting the plurality of second compressed codes to the client computer, wherein the plurality of thumbnail images are displayed in a single view by the client computer, and the displayed thumbnail images have different resolutions corresponding to the format types of the plurality of data files.

9. The computer-readable recording medium as claimed in claim 8, wherein when an ROI is specified with respect to each of the plurality of images, a corresponding second compressed code is extracted according to a corresponding resolution from part of a corresponding first compressed code stored in the storage unit that is related to a tile of the ROI.

10. The computer-readable recording medium as claimed in claim 8, wherein the plurality of second compressed codes are extracted from only a luminance component of the plurality of first compressed codes stored in the storage unit depending on the format types of the data files.

11. A computer-readable recording medium storing a program for causing a client computer to execute a method of displaying a plurality of thumbnail images of a plurality of images, each corresponding to one of a plurality of data files of different format types, on a display unit, the client computer being connected to a server computer via a network, the method comprising:

(a) setting a plurality of resolutions of the plurality of thumbnail images in accordance with the format types of the plurality of images, each format type being associated with one or more resolutions, thereby selecting each of the plurality of thumbnail images from thumbnail images that may be generated from a plurality of first compressed codes related to the plurality of images and are stored in a storage unit; and

(b) transmitting the resolutions set to the server computer, wherein the plurality of thumbnail images are displayed in a single view by the client computer, and the displayed thumbnail images have different resolutions corresponding to the format types of the plurality of data files.

12. The computer-readable recording medium as claimed in claim 11, wherein in a case of receiving from the server computer a plurality of second compressed codes according to the resolutions extracted from part of each of the plurality of first compressed codes stored in the storage unit, the part of each of the plurality of the first compressed codes relating to a tile of an ROI, the thumbnail images include one enlarged in accordance with the format type of the data file corresponding to the image related to the enlarged one.

13. The method of claim 1, wherein the plurality of data files include a text file and an image file, and a thumbnail image displayed in the single view for the text file has a display size larger than a display size of a thumbnail image displayed in the single view for the image file.

14. The server computer of claim 2, wherein the plurality of data files include a text file and an image file, and a thumbnail image displayed in the single view for the text file has a display size larger than a display size of a thumbnail image displayed in the single view for the image file.

15. The client computer of claim 5, wherein the plurality of data files include a text file and an image file, and a thumbnail image displayed in the single view for the text file has a display size larger than a display size of a thumbnail image displayed in the single view for the image file.

16. The computer readable recording medium of claim 8, wherein the plurality of data files include a text file and an image file, and a thumbnail image displayed in the single view for the text file has a display size larger than a display size of a thumbnail image displayed in the single view for the image file.

17. The computer readable recording medium of claim 11, wherein the plurality of data files include a text file and an image file, and a thumbnail image displayed in the single view for the text file has a display size larger than a display size of a thumbnail image displayed in the single view for the image file.

***Allowable Subject Matter***

3. Claims 1-5 and 7-17 as amended are allowed.
4. The following is an examiner's statement of reasons for allowance: See Applicant's argument on P. 13 of the 11/03/08 response.

Note that Anderson (US 6,020,920) discloses displaying multiple thumbnails that are enlarged as necessary and displaying them in different resolutions [Figs. 8 & 9]. Additionally, Drucker et al. (US 7,251,790), Ito et al. (US 6,967,675), Björk et al. ("WEST: A web browser for small terminals", CHI Letters, Vol. 1, 1, (1999), pp. 187-196), Munro et al. (US 2002/0089549) and Scott et al. (US 2003/0080977) all disclose displaying multiple thumbnails, some in different resolutions, on a single view; Schlank et al. (US 6,134,017) discloses displaying text thumbnails. However, none disclose, teach or fairly suggest specifying resolutions of thumbnails based on the format types of the data files they are associated with.

5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

***Contact Information***

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to YUBIN HUNG whose telephone number is (571)272-7451. The examiner can normally be reached on 7:30 - 4:00. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bhavesh M. Mehta can be reached on (571) 272-7453. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.
  
7. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Yubin Hung/  
Primary Examiner, Art Unit 2624